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- 1 [Empirical evidence of the benefits of workspace awareness in software configurati](#)
Anita Sarma, David Redmiles, André van der Hoek
November 2008 SIGSOFT '08/ FSE-16: Proceedings of the 16th ACM SIGSOFT Internation
Foundations of software engineering

Publisher: ACM

Full text available: Pdf (656.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 20, Citation Count: 0

In this paper, we present results from our empirical evaluations of a workspace aware designed and implemented to augment the functionality of software configuration man systems. Particularly, we performed two user experiments ...

Keyw ords: conflicts, evaluation, parallel work, software configuration management, u workspace awareness

- 2 [Mutatis Mutandis: Safe and predictable dynamic software updating](#)
Gareth Stoyke, Michael Hicks, Gavin Bierman, Peter Sewell, Julian Neamtlu
August 2007 Transactions on Programming Languages and Systems (TOPLAS) , Vol
Publisher: ACM

Full text available: Pdf (1.43 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 117, Citation Count: 1

This article presents Proteus, a core calculus that models dynamic software updating, i bugs and adding features to a running program. Proteus permits a program's type stru dynamically but guarantees the updated program ...

Keyw ords: Dynamic software updating, Proteus, capability, type inference, updateabi

- 3 [System support for pervasive applications](#)
Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anders Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 Transactions on Computer Systems (TOCS) , Volume 22 Issue 4
Publisher: ACM

Full text available: Pdf (1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 369, Citation Count: 8

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Pervasive computing provides an attractive vision for the future of computing. Comput be available everywhere. Mobile and stationary devices will dynamically connect and or seamlessly help people in accomplishing their tasks. ...

Keyw ords: Asynchronous events, checkpointing, discovery, logic/operation pattern, n one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

4 Automated benchmarking and analysis tool



Tomas Kalibera, Jakub Lehotsky, David Majda, Branislav Repcek, Michal Tomcany, Anton Tuma, Jaroslav Urban

October 2006 *valuetoools '06: Proceedings of the 1st international conference on Performance methodologies and tools*

Publisher: ACM

Full text available: Pdf (175.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 82, Citation Count: 0

Benchmarking is an important performance evaluation technique that provides perform representative of real systems. Such data can be used to verify the results of performance simulation, or to detect performance changes. Automated ...

Keyw ords: automated benchmarking, regression benchmarking

5 Effective page refresh policies for Web crawlers



Junghoo Cho, Hector Garcia-Molina

December 2003 *Transactions on Database Systems (TODS)* , Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (345.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 231, Citation Count: 11

In this article, we study how we can maintain local copies of remote data sources "fres source data is updated autonomously and independently. In particular, we study the p *crawlers* that maintain local copies of remote ...

Keyw ords: Web crawlers, page refresh, web search engines, world-wide web

6 Optimistic replication



Yasushi Saito, Marc Shapiro

March 2005 *Computing Surveys (CSUR)* , Volume 37 Issue 1

Publisher: ACM


Full text available: Pdf (656.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 146, Downloads (12 Months): 770, Citation Count: 12


Data replication is a key technology in distributed systems that enables higher availabi performance. This article surveys optimistic replication algorithms. They allow replica c diverge in the short term to support concurrent work ...

Keyw ords: Replication, disconnected operation, distributed systems, large scale syste techniques

7 [WWG: a wide-area infrastructure to support groups](#)

 Joan Manuel Marquès, Leandro Navarro

September 2001 GROUP '01: Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work

Publisher: ACM

 Full text available:  Pdf (535.53 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 14, Citation Count: 2


Group learning at Internet scale is becoming more frequent in university courses. This requires support by distributed computing learning support infrastructures. This paper presents the design of WWG (World-Wide Groups): a distributed ...

Keywords: CSCL environment, distance cooperative learning, event distribution, virtu

8 [A formal model for reasoning about adaptive QoS-enabled middleware](#)

 Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha

 January 2004 Transactions on Software Engineering and Methodology (TOSEM), vol. 13
 Publisher: ACM

 Full text available:  Pdf (1.42 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 140, Citation Count: 3

Systems that provide distributed multimedia services are subject to constant evolution. Middleware is required to effectively manage this change. Middleware services for resource management execute concurrently with each other, and with ...


Keywords: Middleware services, actors, meta-object models, multimedia, quality-of-service, theoretical foundations

9 [EnsemBlue: integrating distributed storage and consumer electronics](#)

Daniel Peek, Jason Flinn

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation


Publisher: USENIX Association

 Full text available:  Pdf (399.46 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 35, Citation Count: 0

EnsemBlue is a distributed file system for personal multimedia that incorporates both consumer computers and consumer electronic devices (CEDs). EnsemBlue leverages the capabilities of general-purpose computers to make CEDs first class ...

10 [Introducing technology into the Linux kernel: a case study](#)

 Paul E. McKenney, Jonathan Walpole

July 2008 SIGOPS Operating Systems Review, Volume 42 Issue 5

Publisher: ACM

 Full text available:  Pdf (1.05 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 241, Downloads (12 Months): 2434, Citation Count: 0

There can be no doubt that a great many technologies have been added to Linux™ over the years. What is less well-known is that it is often necessary to introduce a large amount


given technology in order to successfully ...

11 [Oasis: an architecture for simplified data management and disconnected operation](#)

Maya Rodrig, Anthony LaMarca

March 2005 *Personal and Ubiquitous Computing* , Volume 9 Issue 2

Publisher: Springer-Verlag

Full text available:  Pdf (450.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 89, Citation Count: 0


Oasis is an asymmetric peer-to-peer data management system tailored to the requirer computing. Drawing upon applications from the literature, we motivate three high-level availability, manageability, and programmability. ...

12 [System Administration](#)

Jarra Voleynik, Anna Voleynik

November 1999 *Linux Journal* , Volume 1999 Issue 67es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  HTML (31.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 9, Citation Count: 0

EMU--Event Management Utility: The authors present a freely available tool for monitoring systems through simplicity toward complexity

13 [ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9 Issue 4](#)



October 2005 *SIGMOBILE Mobile Computing and Communications Review*

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0


14 [Hang analysis: fighting responsiveness bugs](#)



Xi Wang, Zhenyu Guo, Xuezheng Liu, Zhilei Xu, Haoxiang Lin, Xiaoge Wang, Zheng Zhang

April 2008 *Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Operating Systems*

Publisher: ACM

Full text available:  Pdf (367.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 201, Citation Count: 0

Soft hang is an action that was expected to respond instantly but instead drives an application into a coma. While the application usually responds eventually, users cannot issue other requests while waiting. Such hang problems are widespread in productivity ...

Keywords: blocking invocation, hang, interactive performance, program analysis, resource invocation, responsiveness

Also published in:

April 2008 *SIGOPS Operating Systems Review* Volume 42 Issue 4


15 [The Chubby lock service for loosely-coupled distributed systems](#)

Mike Burrows

November 2006 *OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation*

implementation

Publisher: USENIX Association

Full text available:  Pdf (201.57 KB)Additional Information: [full citation](#), [abstract](#), [references](#)



Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 97, Citation Count: 6

We describe our experiences with the Chubby lock service, which is intended to provide locking as well as reliable (though low-volume) storage for a loosely-coupled distribute provides an interface much like a distributed ...

16 [The development of the Emerald programming language](#) Andrew P. Black, Norman C. Hutchinson, Eric Jui, Henry M. Levy

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Full text available:  Mov (54:7 MIN),  Pdf (1.45 MB) Additional Information: [full citation](#), [appendices](#) and [abstract](#), [references](#), [index](#) to




Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 204, Citation Count: 0

Emerald is an object-based programming language and system designed and implemented by the Department of Computer Science at the University of Washington in the early and mid 1990s. The goal of Emerald was to simplify the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move, distributed programming, object mobility, object-oriented programming, polymorphism, remote object mobility, remote procedure call, type conformity

17 [Communications of the ACM: Volume 51 Issue 9](#)

September 2008 Communications of the ACM


 Publisher: ACMFull text available:  Digital Edition ,  Pdf (8.68 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 933, Downloads (12 Months): 2160, Citation Count: 0

18 [Garbage collection for a client-server persistent object store](#) Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

August 1999 Transactions on Computer Systems (TOCS) , Volume 17 Issue 3


Publisher: ACM

Full text available:  Pdf (267.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#) [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 77, Citation Count: 1

We describe an efficient server-based algorithm for garbage collecting persistent object client-server environment. The algorithm is incremental and runs concurrently with client applications. Unlike previous algorithms, it does not hold ...

Keywords: client-server system, logging, persistent object-store, recovery

19 [High-bandwidth data dissemination for large-scale distributed systems](#) Dejan Kostić, Alex C. Snoeren, Amin Vahdat, Ryan Braud, Charles Killian, James W. Anderson, Adolfo Rodriguez, Erik Vandekeft

February 2008 Transactions on Computer Systems (TOCS) , Volume 26 Issue 1

Publisher: ACM

Full text available:  Pdf (1.23 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 599, Citation Count: 0

This article focuses on the multireceiver data dissemination problem. Initially, IP multi basis for efficiently supporting such distribution. More recently, overlay networks have support point-to-multipoint communication. Both ...


Keywords: Bandwidth, overlays, peer-to-peer

20 FIRE: flexible Intra-AS routing environment

 Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condel Castineyra

August 2000 SIGCOMM '00: Proceedings of the conference on Applications, Technologies, and Protocols for Computer Communication

Publisher: ACM

Full text available:  Pdf (107.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 49, Citation Count: 2

Current routing protocols are monolithic, specifying the algorithm used to construct for the metric used by the algorithm (generally some form of hop-count), and the protocol distribute these metrics as an integrated package. The ...

Also published in:

October 2000 SIGCOMM Computer Communication Review Volume 30 Issue 4

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